

C2K/FACEUP/STORM WATER DIRECTIVE SUMMARY PREPARED FOR CHESAPEAKE BAY QMB 27 February 2002

Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
Guardians		Identify closed shellfish beds adjacent to Federal lands in the Chesapeake Bay watershed	31-Dec-98		FACEUP	NOAA
Protectors		Participate fully in the American Heritage Rivers Program for the Potomac and Upper Susquehanna/Lackawanna Rivers by identifying relevant Federal landholdings	31-Dec-98		FACEUP	EPA
Supporters		Establish annual meetings with the Office of Management and Budget to assess regional impacts associated with major Federally-funded actions in the Chesapeake Bay watershed	1-Jan-99	Beginning in 1999	FACEUP	EPA
Partners		Develop and adopt a Bay Partner Facility program	1-Mar-99		FACEUP	
Providers		Complete a Bay watershed-wide assessment of water quality parameters that support the identification of Nutrient Areas of Concern and serve as a basis for strengthening the ability of local and state jurisdictions to achieve their tributary basins' nutrient reduction goals	1-Mar-99		FACEUP	USGS
Providers		Complete a Bay watershed-wide assessment of potential levels of nutrient loadings that support the identification of Nutrient Areas of Concern and serve as a basis for strengthening the ability of local and state jurisdictions to achieve their tributary basins' nutrient reduction goals	1-Mar-99		FACEUP	USDA

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
		Supplement biennial reporting on the 1994 Agreement of Federal Agencies on Ecosystem Management in the Chesapeake Bay with progress in implementation of the FACEUP	1-Apr-99	Beginning 1 April 1999	FACEUP	EPA
Protectors		Participate fully in the American Heritage Rivers Program for the Potomac and Upper Susquehanna/Lackawanna Rivers by establishing partnership agreements with community-based efforts in the Heritage Rivers watersheds	30-Apr-99		FACEUP	EPA
Protectors		Implement the Biennial Federal Workplan for the Anacostia River Watershed and provide biennial updates	30-Jun-99		FACEUP	COE
Protectors		Develop a mechanism to implement wet weather pollution prevention on Federal facilities in the Anacostia and Rock Creek watersheds	30-Jun-99	AND transfer these technologies to other appropriate Federal facilities and urban areas	FACEUP	EPA
Providers		Sign MOAs to make Chesapeake Bay related data and information Internet accessible by all Bay Program partners through CIMS	1-Jul-99		FACEUP	EPA

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
Stewards		Develop model lease provisions for facilities, outleases, rights-of-way, and other Federal actions to provide a means for Chesapeake Bay stewardship goals to be considered in the issuance of leases by or to Federal agencies within the watershed	30-Sep-99		FACEUP	GSA
Leaders		Provide technical assistance and training for Federal landholders for development of nutrient management plans	31-Dec-99		FACEUP	NRCS
Stewards		Support conservation and restoration of stream corridors on Federal lands by establishing demonstration sites and implementing restoration technology on three Federal facilities	31-Dec-99		FACEUP	USFWS
Stewards		Identify additional blockages to anadromous fish on Federal lands	31-Dec-99		FACEUP	NOAA
Stewards		Identify 4 areas for aquatic reef siting at near shore areas adjacent to Federal facilities, IAW CBP's Framework for Habitat Restoration and the Aquatic Reef Habitat Plan	31-Dec-99		FACEUP	NOAA
Leaders		Establish participation of 30 Federal facilities as mentors in the Chesapeake Bay Program's Businesses for the Bay to implement pollution prevention initiatives	1-Jan-00		FACEUP	DOD

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
Leaders		Implement pollution prevention and related technologies to achieve a 75% voluntary reduction from a 1994 baseline in releases of Chesapeake Bay Toxics of Concern and chemicals required for reporting under section 313(c) of EPCRA for Federal facilities in the Chesapeake Bay basin	1-Jan-00		FACEUP	EPA
Providers		Identify sources that restrict the production of SAV and associated habitat in the middle and upper Bay and tidal tributaries	1-Jan-00		FACEUP	USGS
Providers		Complete an inventory of current science-based technology available for implementation to achieve the agricultural component of Bay nutrient reduction goals	1-Jan-00		FACEUP	USDA
Providers		Complete an analysis of forest distribution and condition in the Chesapeake Bay watershed and host a regional conference to discuss issues related to fragmentation of forest landscape	1-Jan-00		FACEUP	USFS
Stewards		Develop an inventory of habitat restoration needs on Federal lands in the Chesapeake Bay watershed to aid in the creation of an annual list of restoration priority areas from which two projects will be completed each year beginning in 2000	1-Jan-00	Annual Requirement	FACEUP	NOAA

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Stewards		Expand conservation landscaping on Federal facilities, in keeping with the Presidential directive on beneficial landscaping, by completing a Conservation Landscaping and BayScapes Guide for Federal Land Managers	1-Jan-00		FACEUP	USFWS
Stewards		Support the CBP's Wetlands Directive by assisting states in implementation of their strategies for net gain of wetlands and establishing a restoration goal for Federal facilities of 100 acres per year beginning in 2000	1-Jan-00	Annual Requirement	FACEUP	EPA
Stewards		Target priority areas for terrestrial and aquatic invasive species control on Federal facilities	1-Jan-00	AND implement controls on priority sites	FACEUP	USFWS
Supporters		Establish annual meetings with the Office of Management and Budget to assess regional impacts associated with major Federally-funded actions in the Chesapeake Bay watershed	1-Jan-00		FACEUP	EPA

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
H2O	CHEMICAL CONTAMINANTS	Reevaluate and revise 'Chesapeake Bay Basinwide Toxics Reduction and Prevention Strategy"	1-Jan-00	Focus on complementing state and federal regulatory programs to go beyond traditional point source control using watershed-based approach and understanding the effects and impacts of chemical contaminants to increase the effectiveness of management action	C2K	
Providers		Provide an assessment of the amount of nutrients and associated lag times in ground water and of implications for adjustments to tributary strategies' nutrient reduction goals	1-Jul-00		FACEUP	USGS
Stewards		Support conservation and restoration of stream corridors on Federal lands by adopting riparian area conservation policies for Federal lands	30-Sep-00		FACEUP	USFS
Guardians		Locate releases of toxics from Federal facilities in the Chesapeake Bay watershed with priority drainage areas where fish consumption advisories exist and work cooperatively to address these releases	31-Dec-00		FACEUP	EPA

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
Leaders		Assess the performance of Federal on-site septic systems and adopt management plans for priority improvements	31-Dec-00		FACEUP	USPS
Leaders		Expand our existing CBP Federal facility site assessment protocol beyond nutrients to include toxics reduction and habitat restoration opportunities and continue to complete at least five such assessments annually within the Bay watershed	31-Dec-00	No date given - 12/31/2000 used as a starting point	FACEUP	NRCS
Leaders		Ensure that personnel are trained to strengthen and implement comprehensive IPM on 75% of all Federally-owned lands in the watershed and establish a peer review panel to evaluate at least 5 Federal IPM plans annually	31-Dec-00		FACEUP	USDA
Leaders		Develop nutrient management plans for Federal lands within the watershed	31-Dec-00	Emphasizing agricultural, construction, turf, golf course and recreation and developed lands	FACEUP	
Partners		Seek the designation of at least 30 Federal facilities as partners	31-Dec-00		FACEUP	
Guardians		Provide preliminary identification of nitrate levels over the maximum drinking water contaminant level in shallow aquifers throughout the watershed	1-Jan-01		FACEUP	USGS

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
Providers		Develop an index of river flow and other tools to document the long-term changes in water quality, living resources and sea-level rise	1-Jan-01		FACEUP	USGS
Stewards		Support the CBP's Wetlands Directive by assisting states in implementation of their strategies for net gain of wetlands and establishing a restoration goal for Federal facilities of 100 acres per year beginning in 2000	1-Jan-01	Annual Requirement	FACEUP	EPA
Stewards		Develop an inventory of habitat restoration needs on Federal lands in the Chesapeake Bay watershed to aid in the creation of an annual list of restoration priority areas from which two projects will be completed each year beginning in 2000	1-Jan-01	Annual Requirement	FACEUP	NOAA
Supporters		Establish annual meetings with the Office of Management and Budget to assess regional impacts associated with major Federally-funded actions in the Chesapeake Bay watershed	1-Jan-01		FACEUP	EPA
H2O	NUTRIENTS/SEDIMENTS	Define water quality conditions necessary to protect aquatic living resources	1-Jan-01	Assign load reductions for nitrogen and phosphorous to each major tributary.	C2K	

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
H2O	NUTRIENTS/SEDIMENTS	Assign load reductions for sediment to each major tributary	1-Jan-01	Using process parallel to that established for nutrients, determine the sediment load reductions necessary to protect aquatic living resources.	C2K	
HAB	WATERSHED	Develop guidelines to ensure aquatic health of stream corridors	1-Jan-01	Guidelines should consider optimal surface and groundwater flows.	C2K	
LAND	LAND CONSERVATION	Complete an assessment of the Bay's resource lands	1-Jan-01	Including forests and farms, emphasizing their role in the protection of water quality and critical habitats, as well as cultural and economic viability	C2K	
LR	CRABS	Establish harvest targets for the blue crab fishery and begin implementing state mgmt strategies	1-Jan-01	Manage the blue crab fishery to restore a healthy spawning biomass, size and age structure	C2K	
LR	EXOTIC SPECIES	Identify and rank non-native, invasive aquatic and terrestrial species	1-Jan-01	Species causing or having potential to cause negative impacts to the Bay's aquatic ecosystem	C2K	
STEW/COMM ENG	COMM ENG	Develop and maintain a clearing house for information on local watershed restoration efforts, including financial and technical assistance	1-Jan-01		C2K	

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STEW/COMM ENG	COMM ENG	Complete a reevaluation of the Local Government Participation Action Plan and make necessary changes in Bay program and jurisdictional functions based upon the reevaluation	1-Jan-01	Strengthen the Bay program's ability to incorporate local governments into the policy decision making process.	C2K	
STEW/COMM ENG	COMM ENG	Identify community watershed organizations and partnerships and assist in establishing new organizations and partnerships where interest exists.	1-Jan-01	Partners will be important to successful watershed mgmt efforts in distributing information to the public, and engaging the public in Bay restoration and preservation efforts.	C2K	
STEW/COMM ENG	EDUC/OUTREACH	Expand the use of new communication tech to provide comprehensive and interactive source of information on the Bay and its watershed - develop and maintain a web-based clearing house of information for educators	1-Jan-01		C2K	
STEW/COMM ENG	GOV BY EX	Develop an EC directive to address stormwater mgmt to control nutrient, sediment and chemical contaminant runoff from state, federal and District owned land	1-Jan-01		C2K	
FACEUP		Supplement biennial reporting on the 1994 Agreement of Federal Agencies on Ecosystem Management in the Chesapeake Bay with progress in implementation of the FACEUP	1-Apr-01		FACEUP	EPA

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Stewards		Expand conservation landscaping on Federal facilities, in keeping with the Presidential directive on beneficial landscaping, by integrating conservation landscaping into Federal agency specifications and design criteria	31-Jul-01		FACEUP	USFWS
Leaders		Ensure that personnel are trained to strengthen and implement comprehensive IPM on 75% of all Federally-owned lands in the watershed and establish a peer review panel to evaluate at least 5 Federal IPM plans annually	31-Dec-01		FACEUP	USDA
Leaders		Expand our existing CBP Federal facility site assessment protocol beyond nutrients to include toxics reduction and habitat restoration opportunities and continue to complete at least five such assessments annually within the Bay watershed	31-Dec-01		FACEUP	NRCS
Providers		Identify follow-up research needs to further address management needs (related to the amount of nutrients and associated lag times in groundwater)	1-Jan-02		FACEUP	USGS

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Stewards		Support the CBP's Wetlands Directive by assisting states in implementation of their strategies for net gain of wetlands and establishing a restoration goal for Federal facilities of 100 acres per year beginning in 2000	1-Jan-02	Annual Requirement	FACEUP	EPA
Stewards		Develop an inventory of habitat restoration needs on Federal lands in the Chesapeake Bay watershed to aid in the creation of an annual list of restoration priority areas from which two projects will be completed each year beginning in 2000	1-Jan-02	Annual Requirement	FACEUP	NOAA
Supporters		Establish annual meetings with the Office of Management and Budget to assess regional impacts associated with major Federally-funded actions in the Chesapeake Bay watershed	1-Jan-02		FACEUP	EPA
H2O	NUTRIENTS/SEDIMENT	Complete public process to develop and begin implementation of revised Trib Strategy to achieve and maintain assigned loading goals	1-Jan-02		C2K	
HAB	FORESTS	Ensure measures are in place to meet RFB restoration goal of 2010 by 2010.	1-Jan-02	Establish a new goal to expand buffer mileage.	C2K	

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HAB	SAV	Revise SAV restoration goals and strategies to reflect historic abundance	1-Jan-02	Measured as acreage and density from 1930s to present. Revised goals will include specific levels of water clarity to be met in 2010. Goals will include water clarity, water quality and bottom disturbance.	C2K	
HAB	SAV	Implement strategy to accelerate protection and restoration of SAV	1-Jan-02	Focus on areas of critical importance to the Bay's living resources	C2K	
HAB	WATERSHED	Select pilot projects that promote stream corridor protection and restoration	1-Jan-02	Each jurisdiction to work with local governments and communities.	C2K	
LAND	DEV/REDEV/REVIT	Develop analytical tools that allow local governments and communities to conduct watershed-based assessment of impacts of growth, development and transportation decisions.	1-Jan-02		C2K	
LAND	DEV/REDEV/REVIT	Compile information and guidelines to assist local governments and communities to promote ecologically-based designs	1-Jan-02	Limit impervious cover in undeveloped and moderately developed watersheds and reduce the impact of impervious cover in highly developed watersheds.	C2K	

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LAND	DEV/REDEV/REVIT	Review tax policies to identify elements which discourage sustainable development practices or encourage undesirable growth patterns	1-Jan-02	Promote the modification of such policies and the creation of tax incentives which promote the conservation of resource lands and encourage investments consistent with sound growth mgmt principles.	C2K	
LAND	TRANSPORTATION	Each state will coordinate its transportation policies and programs to reduce the dependence on automobiles by incorporating travel alternatives	1-Jan-02	Such as telework, pedestrian, bicycle and transit options, as appropriate, in design of projects so as to increase the availability of alternative modes of travel as measured by increased use of those alternatives.	C2K	
LAND	TRANSPORTATION	Promote coordination of transportation and landuse planning	1-Jan-02	Signatory jurisdictions to encourage compact, mixed use development patterns, revitalization in existing communities and transportation strategies that minimize adverse effects on the Bay and tributaries.	C2K	
LR	EXOTIC SPECIES	Develop and implement interim voluntary ballast water mgmt program	1-Jan-02	National program was to be established in 2000	C2K	
LR	FISH	Identify final initiatives for restoring fish passages	1-Jan-02		C2K	

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LR	FISH	Assess Trends in populations for priority migratory fish species	1-Jan-02	Determine trib-specific target populations based upon projected fish passage, current and projected habitat available and provide recommendations to achieve targets.	C2K	
LR	FISH	Set schedules for removal of physical blockages	1-Jan-02	Goal will address removal of chemical blockages (acid mine drainage). Projects selected for max habitat and stock benefit.	C2K	
LR	OYSTERS	Develop and implement strategy to achieve increase	1-Jan-02	Using sanctuaries, aquaculture, disease resistant mgmt strategies	C2K	
STEW/COMM ENG	COMM ENG	Each signatory jurisdiction will offer easily-accessible information suitable for analyzing environmental conditions at a small watershed scale	1-Jan-02		C2K	
STEW/COMM ENG	EDUC/OUTREACH	Expand citizen outreach efforts to more specifically include minority populations	1-Jan-02	e.g., Highlight cultural and historical ties to the Bay and provide multi-cultural, multi-lingual educational materials on stewardship activities and Bay information.	C2K	

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STEW/COMM ENG	GOV BY EX	Ensure properties owned, managed or leased by signatories are developed, redeveloped and used in a manner consistent with all relevant goals, commitments and guidance of this agreement	1-Jan-02	Ensure the design and construction of signatory-funded development and redevelopment projects are consistent with all relevant goals, commitments and guidance of this agreement.	C2K	
DEMO MGMT	ROADWAYS	Establish joint State DOT and FHA ad hoc workgroup to share innovative approaches and technologies to managing storm water, effectively maintaining BMPs and reducing use of roadway chemicals that could be harmful to the environment (salt, degreasers, motor oil and pesticides)	31-Dec-02	No Month Specified. Successful innovative approaches will be shared with local government public works officials and other road building entities	SW DIR	Urban Storm Water Workgroup in consultation with Transportation Workgroup of Land, Growth and Stewardship Subcommittee
EDUCATE		Establish an ongoing education program for all signatory partners' property managers and their contractors to stay current with the latest innovative storm water management technologies, including how to design, construct, maintain, and operate them.	31-Dec-02	No Month Specified. Share success stories, storm water management guidance documents, and all other relevant manuals and information with all government land owners in the watershed.	SW DIR	

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Leaders		Ensure that personnel are trained to strengthen and implement comprehensive IPM on 75% of all Federally-owned lands in the watershed and establish a peer review panel to evaluate at least 5 Federal IPM plans annually	31-Dec-02		FACEUP	USDA
Leaders		Expand our existing CBP Federal facility site assessment protocol beyond nutrients to include toxics reduction and habitat restoration opportunities and continue to complete at least five such assessments annually within the Bay watershed	31-Dec-02		FACEUP	NRCS
INVENTORY		Develop an inventory of all public lands and facilities within the Chesapeake Bay basin that are owned by the signatories	31-Dec-02	No Month Specified	SW DIR	
INVENTORY		Identify public lands and facilities to target for enhanced storm water management.	31-Dec-02	No Month Specified. Target public lands shall be chosen based upon: areas impaired by storm water runoff and/or CSOs; areas with high potential for urban/suburban storm water pollution; areas with high growth/development pressures.	SW DIR	

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Leaders		Compile and provide information on the reported occurrence of toxics in wildlife in the Bay ecosystem	1-Jan-03		FACEUP	USGS
Providers		Conduct research and provide information needed to identify species and habitats on Federal lands in need of special management efforts to maintain biodiversity and the integrity of the Chesapeake ecosystem	1-Jan-03		FACEUP	USGS
Providers		Define and assess the contribution and implications of nitrogen compound emissions (ammonia) from agricultural activities and develop models that characterize the transport of emissions and deposition of these compounds	1-Jan-03		FACEUP	NOAA
Providers		Develop an index that demonstrates the changes in climate affecting the Chesapeake Bay ecosystem as needed to refine restoration strategies	1-Jan-03		FACEUP	NOAA
Stewards		Develop an inventory of habitat restoration needs on Federal lands in the Chesapeake Bay watershed to aid in the creation of an annual list of restoration priority areas from which two projects will be completed each year beginning in 2000	1-Jan-03	Annual Requirement	FACEUP	NOAA

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Stewards		Support the CBP's Wetlands Directive by assisting states in implementation of their strategies for net gain of wetlands and establishing a restoration goal for Federal facilities of 100 acres per year beginning in 2000	1-Jan-03	Annual Requirement	FACEUP	EPA
Supporters		Establish annual meetings with the Office of Management and Budget to assess regional impacts associated with major Federally-funded actions in the Chesapeake Bay watershed	1-Jan-03		FACEUP	EPA
H2O	AIR POLLUTION	Assess the effects of airborne nitrogen compounds and chemical contaminants on the Bay ecosystem and help establish reduction goals for these contaminants	1-Jan-03		C2K	
H2O	BOAT DISCHARGE	Establish appropriate areas within the Bay and its tributaries as "no discharge zones" for human waste from boats	1-Jan-03		C2K	
H2O	NUTRIENTS/SEDIMENTS	Jurisdictions with tidal waters adopt new or revised water quality standards consistent with defined water quality conditions	1-Jan-03	EPA to work expeditiously to review new and revised standards, which will then be used as the basis for removing the Bay and its tidal rivers from the list of impaired waters	C2K	

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H2O	NUTRIENTS/SEDIMENTS	Work with the Susquehanna River Basin Commission to adopt and begin implementing strategies that prevent loss of sediment retention capability of lower Susquehanna dams	1-Jan-03		C2K	
HAB	WATERSHED	Include aquatic health of stream corridors based on adopted regional guidelines in "State of the Bay" report	1-Jan-03	Make information available to the public, local government and others	C2K	
LAND	DEV/REDEV/REVIT	Work with local governments and communities to develop land-use mgmt and water resource protection approaches that encourage the concentration of new residential development	1-Jan-03	In areas supported by adequate water resources and infrastructure to minimize impacts on water quality.	C2K	
LAND	PUBLIC ACCESS	Develop partnerships with at least 30 sites to enhance place-based interpretation of Bay-related resources and themes and stimulate volunteer involvement in resource restoration and conservation	1-Jan-03		C2K	
LR	EXOTIC SPECIES	Develop and implement mgmt plans for invasive species	1-Jan-03	Species deemed problematic to the restoration and integrity of the Bay's ecosystem	C2K	
LR	FISH	Restore fish passages to currently blocked river habitat	1-Jan-03	Over 1,357 miles of river habitat/establish a monitoring program to assess outcome	C2K	
LR	FISH	Revise fish mgmt plans to include strategies to achieve target	1-Jan-03	Population sizes dependent on trib-specific migratory fish.	C2K	

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		Supplement biennial reporting on the 1994 Agreement of Federal Agencies on Ecosystem Management in the Chesapeake Bay with progress in implementation of the FACEUP	1-Apr-03		FACEUP	EPA
COORDINATE		Identify small watersheds where community-based organizations are taking essential actions to better manage storm water runoff in order to achieve the Chesapeake Bay Program's water quality and living resource restoration goals	31-Dec-03	In these watersheds, participate in community-based watershed restoration activities and provide assistance to community organizations to encourage appropriate approaches for storm water management.	SW DIR	
COORDINATE		Develop and implement procedures to coordinate all new storm water management activities on public lands with local government watershed management plans that have been adopted by local governments.	31-Dec-03	In the event that a local watershed plan is under development, the watershed partners will participate in the planning process to ensure that all new storm water management activities on public lands in the local watershed are coordinated with the plan when adopted	SW DIR	
COORDINATE		Develop a protocol to initiate storm water management opportunities with communities and local governments, in cases where a highway occupancy, access, or utility permit is required.	31-Dec-03		SW DIR	Each DOT

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DEMO MGMT	DEV/REDEV LANDS	Develop and implement procedures to ensure that all new development on public lands provides controls for both storm water quantity and quality during and following construction.	31-Dec-03	No Month Specified	SW DIR	
DEMO MGMT	ROADWAYS	Develop a protocol to evaluate storm water management opportunities for DOT restoration, reconstruction, rehabilitation and new construction projects	31-Dec-03	No Month Specified.	SW DIR	Each DOT
DEV INNOV TECH		Work cooperatively with research institutions to research and develop innovative storm water mangement technologies and approaches that will achieve the objectives and commitments of this directive.	31-Dec-03	No Month Specified.	SW DIR	State, Federal and District agencies
EDUCATE		Work cooperatively with educational institutions to teach engineering students, landscape architects and others about alternative approaches to conventional storm water management by demonstrating these approaches on university campus grounds.	31-Dec-03	No Month Specified. Demonstration projects will be monitored where there is insufficient pollutant removal information on a specific practice.	SW DIR	State, Federal and District agencies

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Leaders		Expand our existing CBP Federal facility site assessment protocol beyond nutrients to include toxics reduction and habitat restoration opportunities and continue to complete at least five such assessments annually within the Bay watershed	31-Dec-03		FACEUP	NRCS
Leaders		Ensure that personnel are trained to strengthen and implement comprehensive IPM on 75% of all Federally-owned lands in the watershed and establish a peer review panel to evaluate at least 5 Federal IPM plans annually	31-Dec-03		FACEUP	USDA
Stewards		Open priority blockages to 50 miles of streams	31-Dec-03		FACEUP	NOAA
Stewards		Develop an inventory of habitat restoration needs on Federal lands in the Chesapeake Bay watershed to aid in the creation of an annual list of restoration priority areas from which two projects will be completed each year beginning in 2000	1-Jan-04	Annual Requirement	FACEUP	NOAA
Stewards		Support the CBP's Wetlands Directive by assisting states in implementation of their strategies for net gain of wetlands and establishing a restoration goal for Federal facilities of 100 acres per year beginning in 2000	1-Jan-04	Annual Requirement	FACEUP	EPA

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Supporters		Establish annual meetings with the Office of Management and Budget to assess regional impacts associated with major Federally-funded actions in the Chesapeake Bay watershed	1-Jan-04		FACEUP	EPA
HAB	WATERSHED	Develop stream corridor restoration goals based on local watershed mgmt planning	1-Jan-04	Each jurisdiction to work with local government, community groups and watershed organizations	C2K	
LAND	DEV/REDEV/REVIT	Jurisdictions will evaluate local implementation of stormwater, erosion control and other locally-implemented water quality protection programs that affect the Bay	1-Jan-04	Ensure programs are coordinated and applied effectively in order to minimize the impacts of development.	C2K	
LR	MULTI-SPECIES	Assess the effects of different population levels of filter feeders on water quality and habitat	1-Jan-04	To include menhaden, oysters, clams	C2K	
Leaders		Expand our existing CBP Federal facility site assessment protocol beyond nutrients to include toxics reduction and habitat restoration opportunities and continue to complete at least five such assessments annually within the Bay watershed	31-Dec-04		FACEUP	NRCS
Leaders		Ensure that personnel are trained to strengthen and implement comprehensive IPM on 75% of all Federally-owned lands in the watershed and establish a peer review panel to evaluate at least 5 Federal IPM plans annually	31-Dec-04		FACEUP	USDA

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Guardians		Participate in re-opening priority shellfish beds adjacent to Federal facilities	1-Jan-05		FACEUP	NOAA
Stewards		Support conservation and restoration of stream corridors on Federal lands by adopting a stream assessment and inventory protocol for Federal lands	1-Jan-05		FACEUP	USFWS
Stewards		Develop an inventory of habitat restoration needs on Federal lands in the Chesapeake Bay watershed to aid in the creation of an annual list of restoration priority areas from which two projects will be completed each year beginning in 2000	1-Jan-05	Annual Requirement	FACEUP	NOAA
Stewards		Support the CBP's Wetlands Directive by assisting states in implementation of their strategies for net gain of wetlands and establishing a restoration goal for Federal facilities of 100 acres per year beginning in 2000	1-Jan-05	Annual Requirement	FACEUP	EPA
Supporters		Establish annual meetings with the Office of Management and Budget to assess regional impacts associated with major Federally-funded actions in the Chesapeake Bay watershed	1-Jan-05		FACEUP	EPA

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
LAND	DEV/REDEV/REVIT	Identify and remove state and local impediments to low impact development designs to encourage the use of such approaches and minimize water quality impacts	1-Jan-05	In cooperation with local governments	C2K	
LAND	PUBLIC ACCESS	Increase the number of designated water trails in the Chesapeake Bay region by 500 miles	1-Jan-05		C2K	
LR	MULTI-SPECIES	Develop ecosystem-based multi-species mgmt plans for target species	1-Jan-05		C2K	
STEW/COMM ENG	COMM ENG	Identify specific actions to address challenges of communities where historically poor water quality and environmental conditions have contributed to disproportional health, economic and social impacts	1-Jan-05		C2K	
STEW/COMM ENG	EDUC/OUTREACH	Provide a meaningful Bay or stream outdoor experience for every school student in the watershed before graduation from high school	1-Jan-05	Beginning with the class of 2005.	C2K	
		Supplement biennial reporting on the 1994 Agreement of Federal Agencies on Ecosystem Management in the Chesapeake Bay with progress in implementation of the FACEUP	1-Apr-05		FACEUP	EPA

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
DEMO MGMT	DEV/REDEV LANDS	Signatories (+ DOT) will develop an approach to ensure the proper function and long-term effectiveness of storm water management practices on public lands.	31-Dec-05	No Month Specified. Approach will include measures to ensure proper maintenance and inspections of storm water management practices and methods for minimizing the need, frequency and costs of inspections and maintenance.	SW DIR	
EDUCATE		Businesses for the Bay will provide specific information and offer technical assistance on storm water practices that reduce nutrient, sediment or chemical contaminant pollutant loads.	31-Dec-05	No Month Specified. Businesses for the Bay Task Group will annually track the number of such interactions.	SW DIR	Businesses for the Bay
Leaders		Expand our existing CBP Federal facility site assessment protocol beyond nutrients to include toxics reduction and habitat restoration opportunities and continue to complete at least five such assessments annually within the Bay watershed	31-Dec-05		FACEUP	NRCS
Leaders		Ensure that personnel are trained to strengthen and implement comprehensive IPM on 75% of all Federally-owned lands in the watershed and establish a peer review panel to evaluate at least 5 Federal IPM plans annually	31-Dec-05		FACEUP	USDA

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
Partners		Seek the designation of 60 Federal facilities	31-Dec-05		FACEUP	
Stewards		Support the CBP's Wetlands Directive by assisting states in implementation of their strategies for net gain of wetlands and establishing a restoration goal for Federal facilities of 100 acres per year beginning in 2000	1-Jan-06	Annual Requirement	FACEUP	EPA
Stewards		Develop an inventory of habitat restoration needs on Federal lands in the Chesapeake Bay watershed to aid in the creation of an annual list of restoration priority areas from which two projects will be completed each year beginning in 2000	1-Jan-06	Annual Requirement	FACEUP	NOAA
Supporters		Establish annual meetings with the Office of Management and Budget to assess regional impacts associated with major Federally-funded actions in the Chesapeake Bay watershed	1-Jan-06		FACEUP	EPA
H2O	BOAT DISCHARGE	Reassess progress in reducing impact of boat waste on the Bay and its tributaries	1-Jan-06	To include evaluating the benefits of further expanding no discharge zones, as well as increasing the number of pump-out facilities	C2K	

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
DEMO MGMT	DEV/REDEV LANDS	Install at least 60 innovative storm water management demonstration projects that strive to achieve no net increase of pollutant loads and to emulate predevelopment hydrologic regimes on targeted lands beind developed or redeveloped.	31-Dec-06	No Month Specified. Demo projects should employ innovative practices that promote infiltration and prevent runoff from becoming polluted, including: wise site planning, control of pollutants at the source, pervious pavements, rain gardens, and green roofs	SW DIR	
DEMO MGMT	ROADWAYS	Begin Implementing feasible storm water management practices on such projects	31-Dec-06	No Month Specified.	SW DIR	
Leaders		Expand our existing CBP Federal facility site assessment protocol beyond nutrients to include toxics reduction and habitat restoration opportunities and continue to complete at least five such assessments annually within the Bay watershed	31-Dec-06		FACEUP	NRCS
Leaders		Ensure that personnel are trained to strengthen and implement comprehensive IPM on 75% of all Federally-owned lands in the watershed and establish a peer review panel to evaluate at least 5 Federal IPM plans annually	31-Dec-06		FACEUP	USDA

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
Stewards		Support the CBP's Wetlands Directive by assisting states in implementation of their strategies for net gain of wetlands and establishing a restoration goal for Federal facilities of 100 acres per year beginning in 2000	1-Jan-07	Annual Requirement (Last Entry - Need to add annual requirements for 2008+)	FACEUP	EPA
Stewards		Develop an inventory of habitat restoration needs on Federal lands in the Chesapeake Bay watershed to aid in the creation of an annual list of restoration priority areas from which two projects will be completed each year beginning in 2000	1-Jan-07	Annual Requirement (Last Entry - Need to add annual requirements for 2008+)	FACEUP	NOAA
Supporters		Establish annual meetings with the Office of Management and Budget to assess regional impacts associated with major Federally-funded actions in the Chesapeake Bay watershed	1-Jan-07		FACEUP	EPA
LR	MULTI-SPECIES	Revise and Implement existing fisheries mgmt plans	1-Jan-07	To incorporate ecological, social and economic considerations, multi-species fisheries mgmt and ecosystem approaches	C2K	
		Supplement biennial reporting on the 1994 Agreement of Federal Agencies on Ecosystem Management in the Chesapeake Bay with progress in implementation of the FACEUP	1-Apr-07		FACEUP	EPA

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
Leaders		Expand our existing CBP Federal facility site assessment protocol beyond nutrients to include toxics reduction and habitat restoration opportunities and continue to complete at least five such assessments annually within the Bay watershed	31-Dec-07		FACEUP	NRCS
Leaders		Ensure that personnel are trained to strengthen and implement comprehensive IPM on 75% of all Federally-owned lands in the watershed and establish a peer review panel to evaluate at least 5 Federal IPM plans annually	31-Dec-07		FACEUP	USDA
DEMO MGMT	DEV LANDS	Achieve at least 30% reduction of chemicals of concern found in storm water sources from public lands in the three toxics REGIONS OF CONCERN (Anacostia, Baltimore Harbor and Elizabeth)	31-Dec-08	No Month Specified. Employ practices to retrofit facility buildings, rooftops, parking lots and roadways to enhance opportunities for infiltration of storm water runoff, control sources of pollution on these lands and facilities and treat polluted runoff	SW DIR	

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
DEMO MGMT	DEV LANDS	Install at least 15 innovative storm water management demonstration projects on targeted developed public lands and facilities, outside the REGIONS OF CONCERN.	31-Dec-08	No Month Specified. Projects should reduce storm water pollutant loads, reduce storm water volume and velocity, improve watershed hydrology and restore aquatic habitat. Conservation and source control techniques are encouraged to modify roofs, buildings, parking lots, green space and streetscapes.	SW DIR	
Stewards		Support conservation and restoration of stream corridors on Federal lands by restoring 200 miles of riparian forest buffers on Federal lands	1-Jan-10		FACEUP	USFS
H2O	BOAT DISCHARGE	Expand by 50% the number and availability of waste pump-out facilities	1-Jan-10		C2K	
H2O	CHEMICAL CONTAMINANTS	Eliminate mixing zones for persistent or bioaccumulative toxics	1-Jan-10	Through continual improvement of pollution prevention measures and other voluntary means, strive for zero release of chemical contaminants from point sources, including air sources.	C2K	
H2O	NUTRIENTS/SEDIMENTS	Correct nutrient/sediment related problems in the Bay and tidal tributaries	1-Jan-10	Goal to remove the Bay and tidal tribs from list of impaired waters under the CWA.	C2K	

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
H2O	PRIORITY URBAN H2O	Reduce pollution loads to the Anacostia River to eliminate public health concerns and achieve living resource, water quality and habitat goals of this (and past) agreements	1-Jan-10	District of Columbia with its watershed partners	C2K	
HAB	WATERSHED	Develop and implement locally supported watershed mgmt plans in 2/3 of Bay watershed	1-Jan-10	Plans would address protection, conservation and restoration of stream corridors, riparian forest buffers and wetlands for the purposes of improving habitat and water quality while optimizing stream flow and water supply.	C2K	
HAB	WETLANDS	Establish a goal of implementing the wetlands plan component in 25% of the land areas of each state's Bay watershed	1-Jan-10	Provide information and assistance to local governments and community groups for the development and implementation of wetlands preservation plans as a component of locally based integrated watershed mgmt plans.	C2K	
HAB	WETLANDS	Achieve a net resource gain by restoring 25,000 acres of tidal and non-tidal wetlands.	1-Jan-10	Based upon 2500 acres per year basin wide by 2005 and beyond.	C2K	
LAND	DEV/REDEV/REVIT	Strengthen brownfield development. Rehabilitate and restore 1050 brownfield sites to productive use.	1-Jan-10		C2K	

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
LAND	LAND CONSERVATION	Permanently preserve from development 20% of land area in the watershed	1-Jan-10	Strengthen programs for land acquisition and preservation within each state that are supported by funding and target the most valuable lands for protection.	C2K	
LAND	PUBLIC ACCESS	Expand by 30% the system of public access points to the Bay, its tribs and related resource sites in an environmentally sensitive manner	1-Jan-10	Work with state and federal agencies, local governments and stakeholder organizations.	C2K	
LR	OYSTERS	Tenfold increase in native oysters	1-Jan-10	Based upon 1994 BASELINE	C2K	
LAND	DEV/REDEV/REVIT	Reduce the rate of harmful sprawl of forest and agricultural land by 30%	1-Jan-12	Measured as an average over five years from the baseline 1992-1997, with measures and progress reported regularly to CEC.	C2K	
Guardians		Work with local governments to address pollution from storm drain outfalls on Federal lands that pose a human health risk through exposure by inhalation, ingestion or body contact such as swimming		No date given.	FACEUP	EPA
Guardians		Support and target research and monitoring efforts on the relation of harmful microorganisms such as Pfiesteria to aquatic resources and human health		No date given.	FACEUP	NOAA

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
Guardians		Support and target research and monitoring efforts on the effects of other physical and biological stressors on fin fish and shellfish		No date given.	FACEUP	USGS
Guardians		Coordinate Federal funding and response systems in support of state and local efforts in the Chesapeake Bay watershed for major events, including Pfiesteria-type outbreaks and other harmful algal blooms		No date given.	FACEUP	NOAA
Partners		Target Conservation Reserve Enhancement funds to Bay watershed states in support of efforts to protect farmland and forests and reduce nutrient inputs to the BAY		No date given.	FACEUP	USDA
Partners		Work to integrate opportunities to benefit the Bay through existing Federal initiatives such as USDA's Environmental Quality Incentives Program and the Wetlands Reserve program		No date given.	FACEUP	USDA
Partners		Support the development of state Unified Watershed Assessments and Action Plans for Priority Watersheds		No date given.	FACEUP	
Partners		Encourage the development of permanent teams within each Bay watershed state, comprised of Federal and state officials with responsibilities for implementing the CWA plan		No date given.	FACEUP	

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
Partners		Promote the addition of new Federal partners, establish or update memoranda of understanding with all Federal partners and strengthen relationships among existing partners through resource sharing and unified program planning and implementation		No date given. Include agencies that deal with transportation and other infrastructure	FACEUP	
Protectors		Support the geographically-specific programs		No date given. Such as the CBP's Regions of Concern for toxics and Nutrient Areas of Concern	FACEUP	
Protectors		Support the 18-point restoration plan for the Elizabeth River through active participation in the programs and projects of the Elizabeth River Coalition		No date given	FACEUP	COE
Protectors		Participate fully in the American Heritage Rivers Program for the Potomac and Upper Susquehanna/Lackawanna Rivers by supporting directed application of technical and funding resources to aid revitalization efforts		No date given	FACEUP	EPA
Stewards		Work with state conservation agencies to determine the effects of nutria on tidal wetland loss and to evaluate methods of controlling this exotic species		No date given	FACEUP	USGS

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
Supporters		Increase public access to the Chesapeake Bay, with at least 200 additional miles of Federally-owned shoreline and tidal waters opened or enhanced for public access and participate in the development of water trails to improve access and appreciation of the Bay and its resources		No date given.	FACEUP	NPS
Supporters		Develop a protocol by which Federal facilities proposed for relocation or major expansion within the Chesapeake Bay watershed will assess the direct and secondary ecological, economic and community effects		No date given.	FACEUP	DOD
Supporters		Encourage construction design that minimizes natural area loss on new and rehabilitated Federal facilities, adopts low impact development and best management technologies for impervious surfaces, utilizes energy efficient technologies and considers the Conservation Landscaping and Bay-Scapes Guide for Federal Land Managers		No date given.	FACEUP	GSA
Supporters		Fully cooperate with local governments, states, and other Federal agencies in carrying out voluntary and madatory actions to comply with the management of storm water		No date given.	FACEUP	EPA

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Supporters		Give preference to re-use and recycling of Federal brownfield sites and discourage development in greenfield sites		No date given.	FACEUP	EPA
Supporters		Evaluate and implement alternative work practices and other policies of Federal agencies in the watershed to reduce vehicle miles traveled		No date given.	FACEUP	EPA
Supporters		Promote funding for research into the effects of road and highway construction on growth and development within the Chesapeake Bay watershed and on increasing storm water flow and inputs of nutrients and toxics to the Bay and its tributaries, including air pollution and land use changes		No date given.	FACEUP	FHWA
H2O	CHEMICAL CONTAMINANTS	Reduce the potential risk of pesticides to the Bay by targeting education, outreach and implementation of IPM and BMPs		No date given. Apply to those lands with higher potential for contributing pesticide loads to the Bay.	C2K	
H2O	NUTRIENTS/SEDIMENT	Continue efforts to achieve and maintain 40% reduction goal agreed to in 1987		No date given. Includes goals being adopted for the tributaries south of the Potomac.	C2K	
H2O	PRIORITY URBAN H2O	Support the restoration of the Anacostia, Baltimore Harbor and Elizabeth River and their watersheds as models for urban river restoration		No date given.	C2K	
HAB	FORESTS	Conserve existing forests along all streams and shorelines		No date given.	C2K	

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
HAB	FORESTS	Promote the expansion and connection of contiguous forests		No date given. Accomplish through conservation easements, greenways, purchase and other land conservation mechanisms	C2K	
HAB	WETLANDS	Achieve a no-net loss of existing wetlands acreage and function in the signatories' regulatory programs		No date given.	C2K	
HAB	WETLANDS	Evaluate the potential impact of climate change in the Bay watershed.		No date given. Evaluate with respect to wetlands, consider potential mgmt options.	C2K	
LAND	DEV/REDEV/REVIT	Encourage the development and implementation of emerging urban storm water retrofit practices to improve their water quantity and quality function		No date given. Work with local governments.	C2K	
LAND	DEV/REDEV/REVIT	Develop and promote wastewater treatment options, such as nutrient reducing septic systems, which protect public health and minimize impacts to the Bay's resources		No date given. Work with local government and others.	C2K	
LAND	DEV/REDEV/REVIT	Work with communities and local governments to encourage sound land use planning and practices		No date given. Address the impacts of growth, development and transportation on the watershed.	C2K	
LAND	DEV/REDEV/REVIT	Promote redevelopment and remove barriers to investment in underutilized urban, suburban and rural communities		No date given. Jurisdictions to work with localities and development interests.	C2K	

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
LAND	DEV/REDEV/REVIT	Provide information to the development community and others so they may champion the application of sound land use practices		No date given.	C2K	
LAND	LAND CONSERVATION	Provide technical and financial assistance to local governments to plan for or revise plans, ordinances and regulations		No date given. Goal to provide for conservation and sustainable use of the forest and agricultural lands.	C2K	
LAND	LAND CONSERVATION	Provide financial assistance or new revenue sources to expand the use of voluntary and market-based mechanisms to preserve and protect natural resources lands		No date given. Mechanisms to include: easements, purchase or transfer of development rights and other approaches	C2K	
LAND	LAND CONSERVATION	Develop and maintain in each jurisdiction a strong GIS system to track the preservation of resource lands and support implementation of sound land use practices		No date given. To be done in cooperation with local governments.	C2K	
LAND	PUBLIC ACCESS	Enhance interpretation materials that promote stewardship at natural, recreational, historical and cultural public access points within the Chesapeake Bay watershed		No date given.	C2K	
LAND	TRANSPORTATION	Consider the provisions of the federal transportation statutes for opportunities to purchase easements to preserve resource lands adjacent to rights of way and special efforts for stormwater mgmt on both new and rehab projects		No date given.	C2K	

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
LAND	TRANSPORTATION	Establish policies and incentives which encourage the use of clean vehicle and other transportation technologies that reduce emissions		No date given.	C2K	
STEW/COMM ENG	COMM ENG	Improve methods of communication with and among local governments on Bay issues and provide adequate opportunities for discussion of key issues		No date given.	C2K	
STEW/COMM ENG	COMM ENG	Enhance funding for locally-based programs that pursue restoration and protection projects that will assist in the achievement of the goals of this and past agreements		No date given.	C2K	
STEW/COMM ENG	COMM ENG	Jurisdictions will work with local governments to identify small watersheds where community-based actions are essential to meeting Bay restoration goals		No date given. In particular, wetlands, forested buffers, stream corridors and public access and work with local governments and community organizations to bring an appropriate range of Bay resources to these communities.	C2K	
STEW/COMM ENG	EDUC/OUTREACH	Make education and outreach a priority in order to achieve public awareness and personal involvement on behalf of the Bay and local watersheds		No date given.	C2K	

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
STEW/COMM ENG	EDUC/OUTREACH	Provide information to enhance the ability of citizen and community groups to participate in Bay restoration activities on their property and in their local watershed		No date given.	C2K	
STEW/COMM ENG	EDUC/OUTREACH	Continue to forge partnerships with Department of Education and institutions of higher learning in each jurisdiction		No date given. Integrate information about the Bay and its watershed into school curricula and university programs.	C2K	
STEW/COMM ENG	EDUC/OUTREACH	Provide students and teacher alike with opportunities to directly participate in local restoration and protection projects		No date given. Support stewardship efforts in school and on school property.	C2K	
STEW/COMM ENG	GOV BY EX	Expand the use of clean vehicle technologies and fuels on the basis of emission reductions		No date given. Goal to have significantly greater % of signatory government's fleet of vehicles use some form of clean technology.	C2K	
STEW/COMM ENG	PARTNERSHIPS	Strengthen partnerships with DE, NY and WV by promoting communication and by seeking agreements on issues of mutual concern		No date given.	C2K	
STEW/COMM ENG	PARTNERSHIPS	Work with non-signatory Bay states to establish links with community-based organizations throughout the watershed		No date given.	C2K	

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
DEV INNOV TECH		Evaluate the legal, institutional and financial obstacles/impediments to implementing new and innovative storm water management practices, including low impact design techniques, and make recommendations for overcoming the identified obstacles/impediments		No Date Given.	SW DIR	Urban Storm Water Work Group will support the Land, Growth and Stewardship subcommittee
DEV INNOV TECH		Seek reductions from storm water pollutant sources by promoting aggressive pollution prevention activities and innovative control technologies.		No Date Given	SW DIR	
ECON/EFFECT		Within one year of completing the demonstration projects, analyze the effectiveness of each demo project, document success stories and lessons learned and disseminate results that can be applied to other areas of the Chesapeake Bay watershed.		Specific dates not provided - see associated parent tasks. Analysis should include an evaluation of the process used to implement and fund the project, the effectiveness of the project in reducing/eliminating storm water runoff volume and pollutant loads	SW DIR	
MEASURING		Report progress towards meeting these commitments annually to the Nutrient and Toxics Subcommittees and the IC		NO DATE GIVEN.	SW DIR	

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Category	Sub-category	Task Description	END DATE	Notes	Source	LEAD
MEASURING		Within one year after each specified commitment deadline, the Urban Storm Water Workgroup will evaluate progress toward meeting the commitment and determine if work plan revisions or further direction from the EC are needed AND will make appropriate recommendations through the Toxics and Nutrient Subcommittees to the Implementation Committee		NO DATE GIVEN.	SW DIR	